

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.**

Application Serial Number: 10/504,187  
Source: PT  
Date Processed by STIC: 1-24-06

# ***ENTERED***



PCT

## RAW SEQUENCE LISTING

DATE: 01/24/2006

PATENT APPLICATION: US/10/501,187

TIME: 09:57:59

Input Set : F:\SEQLIST.txt

Output Set: N:\CRF4\01052006\J501187.raw

4 <110> APPLICANT: Hansen, Rhonda  
 6 <120> TITLE OF INVENTION: GENE PRODUCTS DIFFERENTIALLY EXPRESSED  
 7 IN CANCEROUS BREAST CELLS AND THEIR METHODS OF USE  
 10 <130> FILE REFERENCE: 2300-17767  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/10/501,187  
 C--> 12 <141> CURRENT FILING DATE: 2004-07-08  
 12 <150> PRIOR APPLICATION NUMBER: 60/345,637  
 13 <151> PRIOR FILING DATE: 2002-01-08  
 15 <160> NUMBER OF SEQ ID NOS: 516  
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 114  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Homo sapiens  
 24 <220> FEATURE:  
 25 <221> NAME/KEY: misc\_feature  
 26 <222> LOCATION: 70  
 27 <223> OTHER INFORMATION: n = A,T,C or G  
 30 <400> SEQUENCE: 1  
 31 catcctcgga cgccagcaag gtgacctcta agggggcagg gctctcaaag gcctttgtgg 60  
 W--> 32 gccagaaggn aaggttcctt cctggtggac tgcagcaaaag ctggctccaa catg 114  
 34 <210> SEQ ID NO: 2  
 35 <211> LENGTH: 430  
 36 <212> TYPE: DNA  
 37 <213> ORGANISM: Homo sapiens  
 39 <400> SEQUENCE: 2  
 40 gggactcgcc acctcctctt gcaaccttgc caggcccagc agccaccaca gcgcctgctt 60  
 41 cctcgccctt gaaatcatgc ccctaggtct cctgtggctg ggcctagccc tgttgggggc 120  
 42 tctgcatgcc caggcccagg actccacctc agacctgatc ccagccccac ctctgaacaa 180  
 43 ggtccctctg cagcagaact tgcaggacaa ccaattccag gggaagtggg atgtggtacg 240  
 44 cctggcaggg aatgcaattc tcagagaaga caaagaccgc caaaagatgt atgccaccat 300  
 45 ctatgagctg aaagaagaca agagctacaa tgtcacctcc gtctgttta ggaaaaagaa 360  
 46 gtgtgactac tggatcacga cttttgttcc aggttgccag cccggcgagt tcacgctggg 420  
 47 caacattaag 430  
 49 <210> SEQ ID NO: 3  
 50 <211> LENGTH: 527  
 51 <212> TYPE: DNA  
 52 <213> ORGANISM: Homo sapiens  
 54 <400> SEQUENCE: 3  
 55 ctgctaatac agccctggct gtggaatcct tcaccgtctc agctgggtatc agccccagcc 60  
 56 tgccttgtgc catatctcag cttggatctc tgctagagtc cccccaacca tatatcatag 120  
 57 agttgaatca caatgagacc gttggctttg aatttgagtc gttggttccc atggtgagat 180  
 58 gcttggttaag actttatact tgggtcaatc tctcacttta tttttagtaa ccatttgaaa 240

(pg. 6-7)

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Input Set : F:\SEQLIST.txt

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59 tcctaggatg tgcttgttct ggaaggatga catgggcccga gactgaacaa gtcagcttga 300
60 tgatcttaaa tgatggaagt ataggacgtt gcttatttta aaacaaggga aggacacaaa 360
61 atggaatgac tgcttagtcc tttctcagat actcttaaaa caatttttta ttgttaaatt 420
62 tgtggtaata catggtcaca accgtggatc aaacaaggtc agtctaaagt ggcaggtcct 480
63 aggtgtgacc tgataccacc accctttgtg gcagcaccgg gctggac 527
65 <210> SEQ ID NO: 4
66 <211> LENGTH: 262
67 <212> TYPE: DNA
68 <213> ORGANISM: Homo sapiens
70 <220> FEATURE:
71 <221> NAME/KEY: misc_feature
72 <222> LOCATION: 186, 188
73 <223> OTHER INFORMATION: n = A,T,C or G
75 <400> SEQUENCE: 4
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77 aggagtgtgg ctaccacttg gccccctctg atctgcgccg ggtcgccaca tactggtctg 120
78 gagtgggact gactggctcc agacagacca tgttctacac agaggtgaca gatgccagc 180
W--> 79 gtacgntncc aggtgggggc ctggtggagg aggggtgagct cattgaggtg gtgcacctgc 240
80 ccctggaagg cgcccaggcc tt 262
82 <210> SEQ ID NO: 5
83 <211> LENGTH: 201
84 <212> TYPE: DNA
85 <213> ORGANISM: Homo sapiens
87 <400> SEQUENCE: 5
88 gccactgaaa atccttggtta aaaaccagat cacaaatctg gggctcttgg tcccattgga 60
89 gaaggaagga agagcctcaa aataagtgtg caccatgca catattcagg aacagcttgt 120
90 ttagtcttta cactttgcct gaaagttgct tctcctcgtc cttttgtgtg cctgggtggc 180
91 ctcgccctg tgcgttgga a 201
93 <210> SEQ ID NO: 6
94 <211> LENGTH: 621
95 <212> TYPE: DNA
96 <213> ORGANISM: Homo sapiens
98 <400> SEQUENCE: 6
99 tgagggtccc cgctcagctc ctggggctcc tgctactctg gctccgaggt gccagatgtg 60
100 acatccagat gaccagctct ccatectccc tgtctgcac tggtggagac agagtcacca 120
101 tcgcttgccg ggcaagtcag agcattggca tctatttaaa ttggtatcaa caaaaaccag 180
102 ggaaagcccc taaactcctg atctatgatt catccagatt gcaaagtggg gtcccatcaa 240
103 ggttcagtgg cagtggaggt gggacacact tctctcac catcagcagt ctgcaacctg 300
104 aagatttagc aacttactac tgtcaacaag ggtacagtac acctggcacc ttcgccaag 360
105 ggacacgact ggaaattaaa cgaactgtgg ctgcaccatc tgtcttcac ttcccgccat 420
106 ctgatgagca gttgaaatct ggaactgcct ctggtgtgtg cctgctgaat aacttctatc 480
107 ccagagaggg caaagtacag tggaggtggg ataacgccct ccaatcgggt aactcccagg 540
108 aggggtgtca cagagcagga cagcaaggac agcacctaca gcctcagcag caccctgacg 600
109 ctgagcaaag cagactacga g 621
111 <210> SEQ ID NO: 7
112 <211> LENGTH: 548
113 <212> TYPE: DNA
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 7

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117 gacagcatgg acatgagggg ccccgctcag ctccctggggc tccctgctact ctgggtccga 60
118 ggtgccagat gtgacatcca gatgaccag tctccatcct cctgtctgc atctgttga 120
119 gacagagtca ccatcgcttg cggggcaagt cagagcattg gcctctattt aaattggtat 180
120 caacaaaaac cagggaaagc ccctaaactc ctgatctatg attcatccag attgcaaagt 240
121 ggggtcccat caaggttcag tggcagtggg ggtgggacac acttcaactc caccatcagc 300
122 agtctgcaac ctgaagattt agcaacttac tactgtcaac aagggtagac tacacctggc 360
123 accttcggcc aagggacacg actggaaatt aaacgaactg tggctgcacc atctgtcttc 420
124 atcttcccgc catctgatga gcagttgaaa tctggaaactg cctctgttgt gtgcctgctg 480
125 aataacttct atcccagaga ggccaaagta cagtggaaagg tggataacgc cctccaatcg 540
126 ggtaactc 548
128 <210> SEQ ID NO: 8
129 <211> LENGTH: 430
130 <212> TYPE: DNA
131 <213> ORGANISM: Homo sapiens
133 <400> SEQUENCE: 8
134 tatacacaaac atttatttca aactattggg agggatgaga gtggcttaaa aacttccatc 60
135 cctacttttc aagagtgcag ttgattctga atctgaaagc ccgcctctgt cctaaaatac 120
136 aaacaagcac agacattaaa cctggatact atatgataaa gagggatgta actattgaat 180
137 tggatacaag gatcagaatg gaaagaaact cacgatgaaa ttgaacctgg tttttgtata 240
138 tttatcaaac ttgtgctgag aatagtgtct gattatacga cttttaagca aagttgggtg 300
139 taattagggtg aaaacagccc aggtcctccc gggagcacag aggggctagg ggctggctct 360
140 tctcgtttgc tctagtcttg ctttgcctgc tgggtgtagct cctctgctgc tcccatctgc 420
141 actaattgac 430
143 <210> SEQ ID NO: 9
144 <211> LENGTH: 493
145 <212> TYPE: DNA
146 <213> ORGANISM: Homo sapiens
148 <400> SEQUENCE: 9
149 ctcaactattt ggaatttggc cctcgaggcc aagaattcgg cacgaggcgg cacgaggtgt 60
150 aactattgaa ttggatacaa ggatcagaat ggaaagaaac tcacgatgaa attgaacctg 120
151 gtttttgtat atttatcaaa cttgtgctga gaatagtgtc tgattatacg acttttaagc 180
152 aaagttgggt gtaattagggt gaaaacagcc caggtcctcc cgggagcaca gaggggctag 240
153 gggctgggtcc ttctcgtttg ctctagtctt gctttgctgt ctgggtgtagc tccctgctg 300
154 ctcccatctg cactaattga cccaaaacgt gggattttcc tgctacacaa aagccaaaag 360
155 gtttcatgta gatttttagtt cactaaaggg tgcccacaaa atagagatta attttaactt 420
156 aaattttaag cttgaagatt aggtactatc tgtgaagtta cacttttttt ttttttttaa 480
157 aaggaaaaaa tgt 493
159 <210> SEQ ID NO: 10
160 <211> LENGTH: 472
161 <212> TYPE: DNA
162 <213> ORGANISM: Homo sapiens
164 <400> SEQUENCE: 10
165 cggcacgagg tgtaactatt gaattggata caaggatcag aatggaaaga aactcacgat 60
166 gaaattgaac ctggtttttg tatatttatc aaacttgtgc tgagaatagt gtctgattat 120
167 acgactttta agcaaagttg ggtgtaatta ggtgaaaaca gcccggtcc tcccgggagc 180
168 acagaggggc taggggctgg tcttctcgt ttgctctagt cttgctttgc tgtctggtgt 240
169 agctcctctg ctgctcccat ctgcactaat tgacccaaaa cgtgggtatt tctgtctaca 300
170 caaaagccaa aaggtttcat gtagatttta gttcactaaa ggggtgccac aaaatagaga 360
171 ttaattttta cttaaatttt aagcttgaag attaggtact atctgtgaag ttacactttt 420

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172 ttatttttttt ttaaaggtag agatgtgtgt gtgtgtaggt attaaagatg tg 472
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 271
176 <212> TYPE: DNA
177 <213> ORGANISM: Homo sapiens
179 <400> SEQUENCE: 11
180 gttttttcttt tttttataca caacatttat ttcaaactat tgggagggat gagagtggct 60
181 taaaaaacttc catccctact tttcaagagt gcagttgatt ctggggggga aagcccgct 120
182 ctgtcctaaa atacaaacaa gcacagacat taaacctgga tactatatga taaagaggga 180
183 tgtaactatt gaattggata caaggatcag aatggaaaga aactcacgat gaaattgaac 240
184 ctggtttttg tatatttatc aaacttgtgc t 271
186 <210> SEQ ID NO: 12
187 <211> LENGTH: 343
188 <212> TYPE: DNA
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 12
192 gttttttcttt tttttataca caacatttat ttcaaactat tgggagggat gagagtggct 60
193 taaaaaacttc catccctact tttcacgagt gcagctgatt ctgaatctga aagcccgct 120
194 ctgtcctaaa atacaaacac gcacagacat tagacctgga tactatatga tacagaggga 180
195 tgtaactatt gaattggata cacggatcac aatggaaaga aactcacgat gaaattgaac 240
196 ctggcttttg tatatttatc aaacttgtgc tgagaatagc gcctgattat acgactttta 300
197 agcaaagctg ggtgtaatta ggtgaaaaca gcccacgtcc tcc 343
199 <210> SEQ ID NO: 13
200 <211> LENGTH: 345
201 <212> TYPE: DNA
202 <213> ORGANISM: Homo sapiens
204 <400> SEQUENCE: 13
205 agtggcgagc aggttccac ttgccaaaga tcccttttaa ccaacactag cccttgtttt 60
206 taacacacgc tccagccctt catcagcctg ggcagtctta ccaaaatgtt taaagtgatc 120
207 tcagaggggc ccatggatta acgcccctac cccaaggctc gtcccatgac ataacactcc 180
208 acaccgccc cagccaactt catgggtcac tttttctgga aaataatgat ctgtacagac 240
209 aggacagaat gaaactcctg cgggtctttg gcctgaaagt tgggaatggt tgggggagag 300
210 aagggcagca gcttattggt ggtcttttca ccattggcag aaacg 345
212 <210> SEQ ID NO: 14
213 <211> LENGTH: 401
214 <212> TYPE: DNA
215 <213> ORGANISM: Homo sapiens
217 <400> SEQUENCE: 14
218 ttttccaagt cgttttcagt cccttccttg gtctgaagaa attctgcagt ggcgagcagt 60
219 tttccacttg ccaaagatcc cttttaacca acactagccc ttgtttttta cacacgctcc 120
220 agcccttcat cagcctgggc agtcttacca aaatgtttta agtgatctca gaggggcca 180
221 tggattaacg cctcatccc aagggtccgtc ccatgacata acactccaca cccgccccag 240
222 ccaacttcat gggtcacttt ttctggaaaa taatgatctg tacagacagg acagaatgaa 300
223 actcctgagg ctctttggcc tgaaagtggg gaatggtgg gggagagaag ggcagcagct 360
224 tattggtggt cttttcacca ttggcagaaa cagtgagagc t 401
226 <210> SEQ ID NO: 15
227 <211> LENGTH: 442
228 <212> TYPE: DNA
229 <213> ORGANISM: Homo sapiens

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## RAW SEQUENCE LISTING

DATE: 01/24/2006

PATENT APPLICATION: US/10/501,187

TIME: 09:57:59

Input Set : F:\SEQLIST.txt

Output Set: N:\CRF4\01052006\J501187.raw

231 &lt;400&gt; SEQUENCE: 15

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232 ggcagccggc ccacatgtct ctcaagtacc tgtcccctcg ctctgggtgat tatttcttgc 60
233 agaataccca cagcagacca tcccggcagt catggttttg ctttagtttt ccaagtcctg 120
234 ttcagtcctt tccttgggtc gaagaaattc tgcagtggcg agcagtttcc cacttgccaa 180
235 agatcccttt taaccaaacac tagcccttgt ttttaacaca cgctccagcc cttcatcagc 240
236 ctgggcagtc ttacaaaaat gtttaaagtg atctcagagg ggcccatgga ttaacgccct 300
237 catccaagg tccgtcccat gacataaac tccacacccg cccagccaa cttcatgggt 360
238 cactttttct ggaaaataat gatctgtaca gacaggacag aatgaaactc ctgcggctct 420
239 ttggcctgaa agtgggaatg gt                                     442

```

241 &lt;210&gt; SEQ ID NO: 16

242 &lt;211&gt; LENGTH: 256

243 &lt;212&gt; TYPE: DNA

244 &lt;213&gt; ORGANISM: Homo sapiens

246 &lt;220&gt; FEATURE:

247 &lt;221&gt; NAME/KEY: misc\_feature

248 &lt;222&gt; LOCATION: 96

249 &lt;223&gt; OTHER INFORMATION: n = A,T,C or G

252 &lt;400&gt; SEQUENCE: 16

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W--> 253 gaatatgtag atttgcttct taatcctgag cgctacactg gttacaaggg accagatgct 60
254 tggaataat ggaatgtcat ctacgaagaa aactgnttta agccacagac cattaataa 120
255 ccttaaatcc tttggcttct ggtcaaggga caagtgaaga gaacactttt tacagttggc 180
256 tagaaggctc ctgtgtagaa aaaagagctt ctacagactt atatctggcc tacatgcaag 240
257 ccattaatgt gcattt                                     256

```

259 &lt;210&gt; SEQ ID NO: 17

260 &lt;211&gt; LENGTH: 405

261 &lt;212&gt; TYPE: DNA

262 &lt;213&gt; ORGANISM: Homo sapiens

264 &lt;400&gt; SEQUENCE: 17

```

265 attctgtgat ttatttgaaa ctgtgaaacc atgtgccata atagaatttt gagaattttg 60
266 cttttacctt aattcaagaa aatgaaatta cacttttaag ttagtggtgc ttaagcataa 120
267 tttttcctat attaacagt attaaaatct caagtaagat tttccagtgc cagaacatgt 180
268 taggtggaat tttaaaagt cctcggcact ctgtattaca tgcatagaa ttgtaaagtc 240
269 aacatcaatt actagtaatc attctgcact cactgggtgc atagcatggt tagaggggct 300
270 agagatggac agtcatcaac tggcggatat agcgggtacat atgatcctta gccaccaggg 360
271 cacaagctta ccagtagaca atacagacag agcttttgtt gagct                                     405

```

273 &lt;210&gt; SEQ ID NO: 18

274 &lt;211&gt; LENGTH: 447

275 &lt;212&gt; TYPE: DNA

276 &lt;213&gt; ORGANISM: Homo sapiens

278 &lt;400&gt; SEQUENCE: 18

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279 tgtgatttca tttgaaactg tgaaaccatg tgccataata gaattttgag aattttgctt 60
280 ttacctaat tcaagaaaat gaaattacac ttttaagtta gtggtgctta agcataattt 120
281 ttcctatatt aaccagtatt aaaatctcaa gtaagatttt ccagtgccag aacatgtag 180
282 gtggaatttt aaaagtgcct cggcatcctg tattacatgt catagaattg taaagtcaac 240
283 atcaattact agtaatcatt ctgcactcac tgggtgcata gcatggtag aggggctaga 300
284 gatggacagt catcaactgg cggatatagc ggtacatatg atccttagcc accagggcac 360
285 aagcttacca gtagacaata cagacagagc ttttggttag ctgtaactga gctatggaat 420
286 agcttctttg atgtacctt ttgcctt                                     447

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288 &lt;210&gt; SEQ ID NO: 19

**RAW SEQUENCE LISTING ERROR SUMMARY**  
PATENT APPLICATION: US/10/501,187DATE: 01/24/2006  
TIME: 09:58:00Input Set : F:\SEQLIST.txt  
Output Set: N:\CRF4\01052006\J501187.raw**Please Note:**

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 70 ✓  
Seq#:4; N Pos. 186, 188 ✓  
Seq#:16; N Pos. 96 ✓  
Seq#:21; N Pos. 626, 685, 696 ✓  
Seq#:34; N Pos. 34, 41, 43, 52, 58, 72, 180, 204, 205, 211, 214, 228, 243, 253, 269, 271  
Seq#:34; N Pos. 295, 315, 343, 429, 439, 457, 483, 517, 529, 546, 554, 555, 557, 560, 561  
Seq#:34; N Pos. 565, 627, 632, 637, 644, 655, 659, 662, 672, 680, 689, 690, 698  
Seq#:39; N Pos. 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27  
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Seq#:40; N Pos. 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45  
Seq#:40; N Pos. 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65  
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Seq#:40; N Pos. 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624  
Seq#:40; N Pos. 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639  
Seq#:40; N Pos. 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654  
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Seq#:40; N Pos. 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714  
Seq#:40; N Pos. 715, 716, 717  
Seq#:41; N Pos. 243, 267  
Seq#:44; N Pos. 491, 541, 556, 561, 568, 578, 585  
Seq#:58; N Pos. 7  
Seq#:73; N Pos. 122, 123  
Seq#:75; N Pos. 96  
Seq#:94; N Pos. 163, 189, 219, 222, 225, 226, 228, 233  
Seq#:132; N Pos. 37  
Seq#:137; N Pos. 244  
Seq#:140; N Pos. 444  
Seq#:144; N Pos. 109, 128, 153, 161, 167, 174, 175, 178, 196, 202, 206, 211, 213  
Seq#:150; N Pos. 285, 455, 597, 606, 636, 667, 686  
Seq#:152; N Pos. 37, 41

RAW SEQUENCE LISTING ERROR SUMMARY      DATE: 01/24/2006  
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Input Set : F:\SEQLIST.txt  
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Seq#:153; N Pos. 168,190,203,229  
Seq#:173; N Pos. 106,113,125,137  
Seq#:184; N Pos. 98,141,162,213  
Seq#:187; N Pos. 228  
Seq#:189; N Pos. 210  
Seq#:190; N Pos. 140  
Seq#:191; N Pos. 85,100,143,155,182,203,229,245,254



## VERIFICATION SUMMARY

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PATENT APPLICATION: US/10/501,187

TIME: 09:58:00

Input Set : F:\SEQLIST.txt

Output Set: N:\CRF4\01052006\J501187.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No  
 L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date  
 L:32 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60  
 L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4 after pos.:180  
 L:254 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:16 after pos.:60  
 L:339 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:600  
 M:341 Repeated in SeqNo=21  
 L:531 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0  
 M:341 Repeated in SeqNo=34  
 L:636 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0  
 M:341 Repeated in SeqNo=39  
 L:690 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0  
 M:341 Repeated in SeqNo=40  
 L:720 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:240  
 L:778 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:480  
 M:341 Repeated in SeqNo=44  
 L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:58 after pos.:0  
 L:1207 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73 after pos.:120  
 L:1238 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:75 after pos.:60  
 L:1517 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:94 after pos.:120  
 M:341 Repeated in SeqNo=94  
 L:2068 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:132 after pos.:0  
 L:2141 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:137 after pos.:240  
 L:2191 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:140 after pos.:420  
 L:2247 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:144 after pos.:60  
 M:341 Repeated in SeqNo=144  
 L:2321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:150 after pos.:240  
 M:341 Repeated in SeqNo=150  
 L:2354 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:152 after pos.:0  
 L:2374 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:153 after pos.:120  
 M:341 Repeated in SeqNo=153  
 L:2664 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:173 after pos.:60  
 M:341 Repeated in SeqNo=173  
 L:2823 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:184 after pos.:60  
 M:341 Repeated in SeqNo=184  
 L:2871 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:187 after pos.:180  
 L:2905 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:189 after pos.:180  
 L:2921 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:190 after pos.:120  
 L:2936 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:191 after pos.:60  
 M:341 Repeated in SeqNo=191  
 L:3073 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:200 after pos.:0  
 M:341 Repeated in SeqNo=200  
 L:3092 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:201 after pos.:0  
 M:341 Repeated in SeqNo=201  
 L:3213 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:209 after pos.:0  
 M:341 Repeated in SeqNo=209  
 L:3301 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:215 after pos.:60  
 M:341 Repeated in SeqNo=215

**VERIFICATION SUMMARY**

DATE: 01/24/2006

PATENT APPLICATION: US/10/501,187

TIME: 09:58:00

Input Set : F:\SEQLIST.txt

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L:3431 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:224 after pos.:60  
L:3448 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225 after pos.:120  
L:3501 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228 after pos.:0  
M:341 Repeated in SeqNo=228